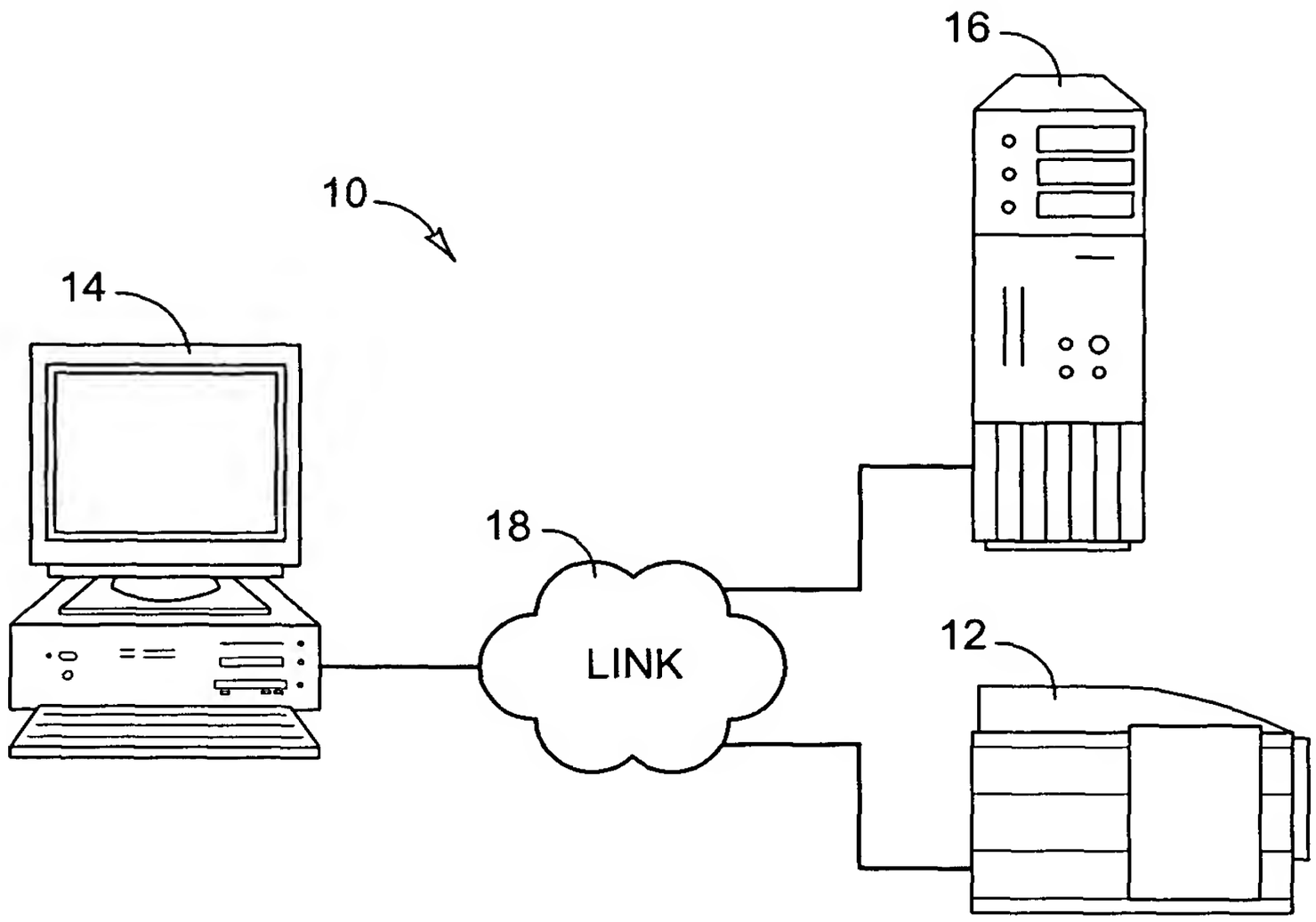
16
10
14
18
LINK
12

FIG. 1

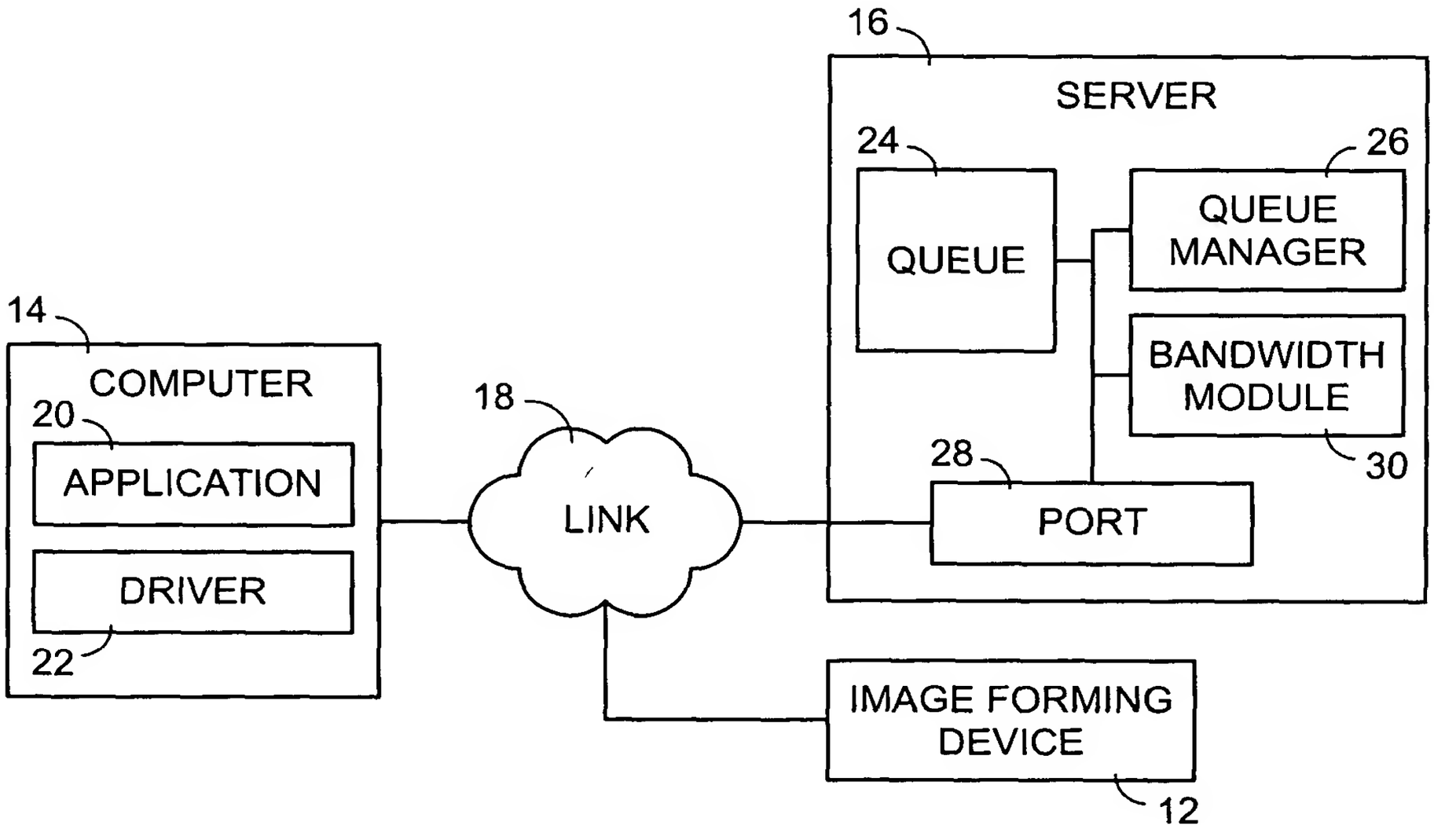
16
SERVER
24
26
QUEUE
QUEUE MANAGER
BANDWIDTH MODULE
30
28
PORT
14
COMPUTER
20
APPLICATION
DRIVER
22
18
LINK
IMAGE FORMING DEVICE
12

FIG. 2

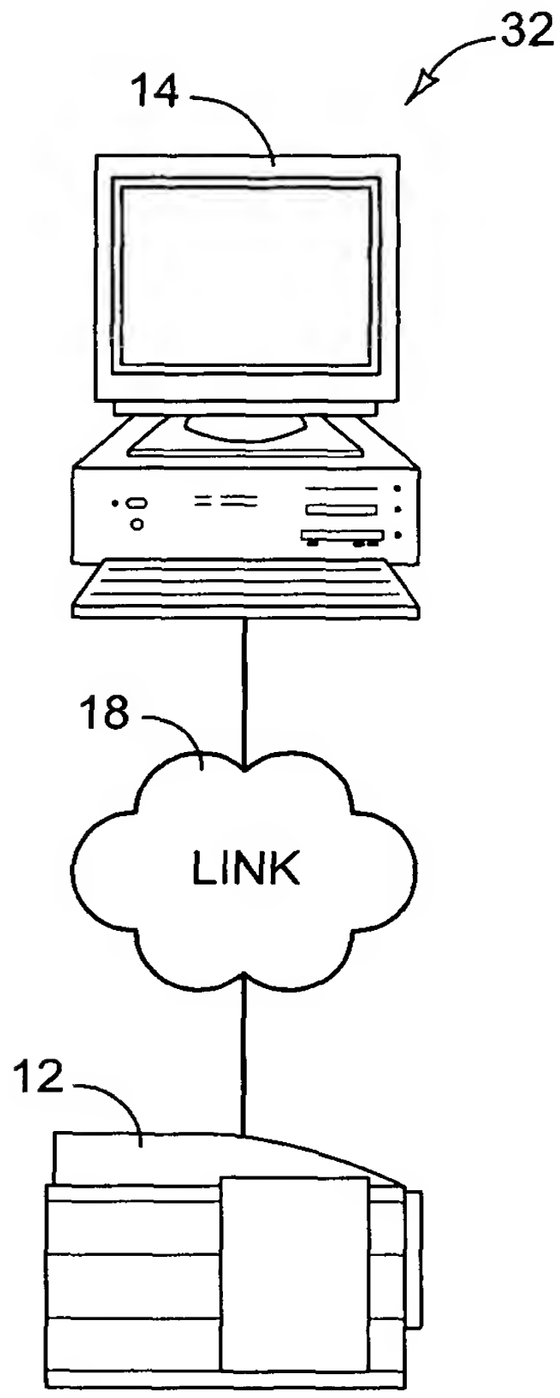
32
14
18
LINK
12

FIG. 3

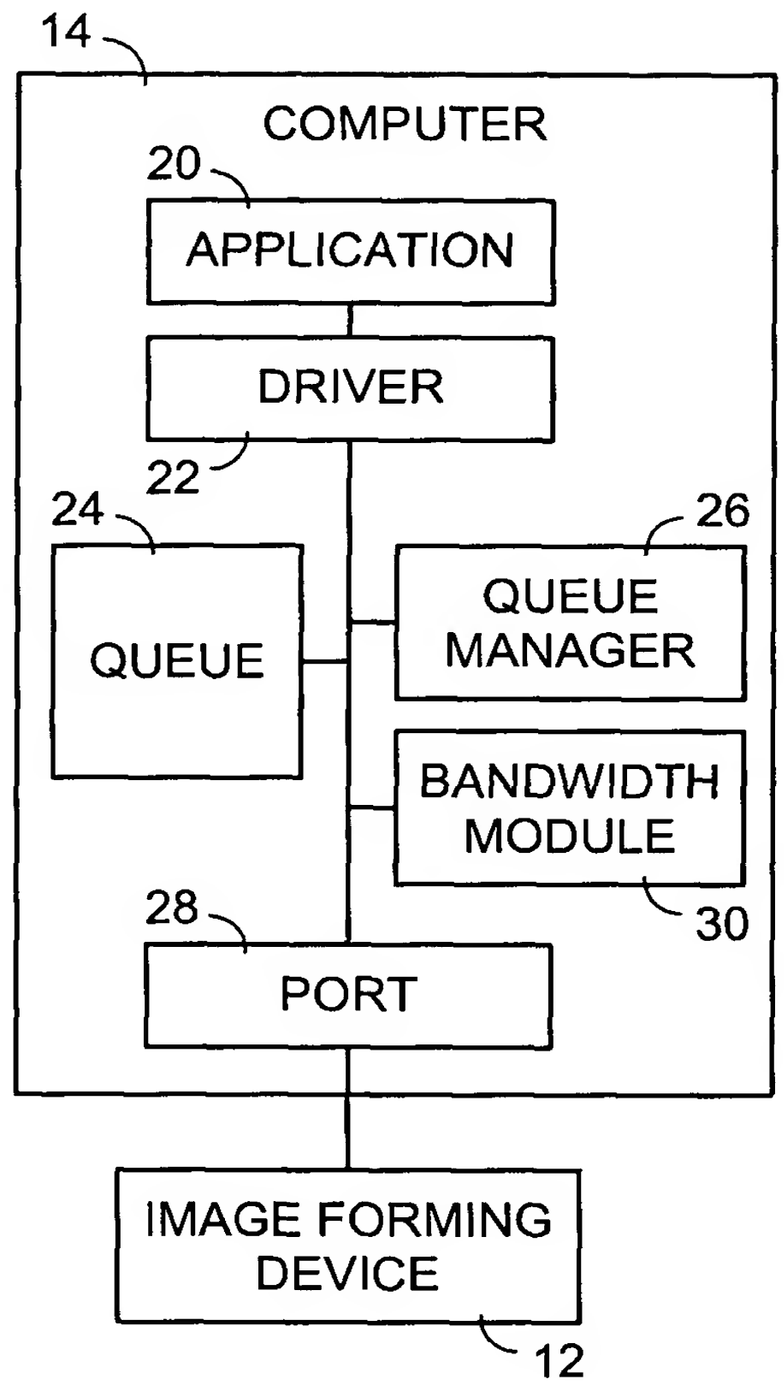
14
COMPUTER
20
APPLICATION
DRIVER
22
24
QUEUE
26
QUEUE MANAGER
BANDWIDTH MODULE
30
28
PORT
IMAGE FORMING DEVICE
12

FIG. 4

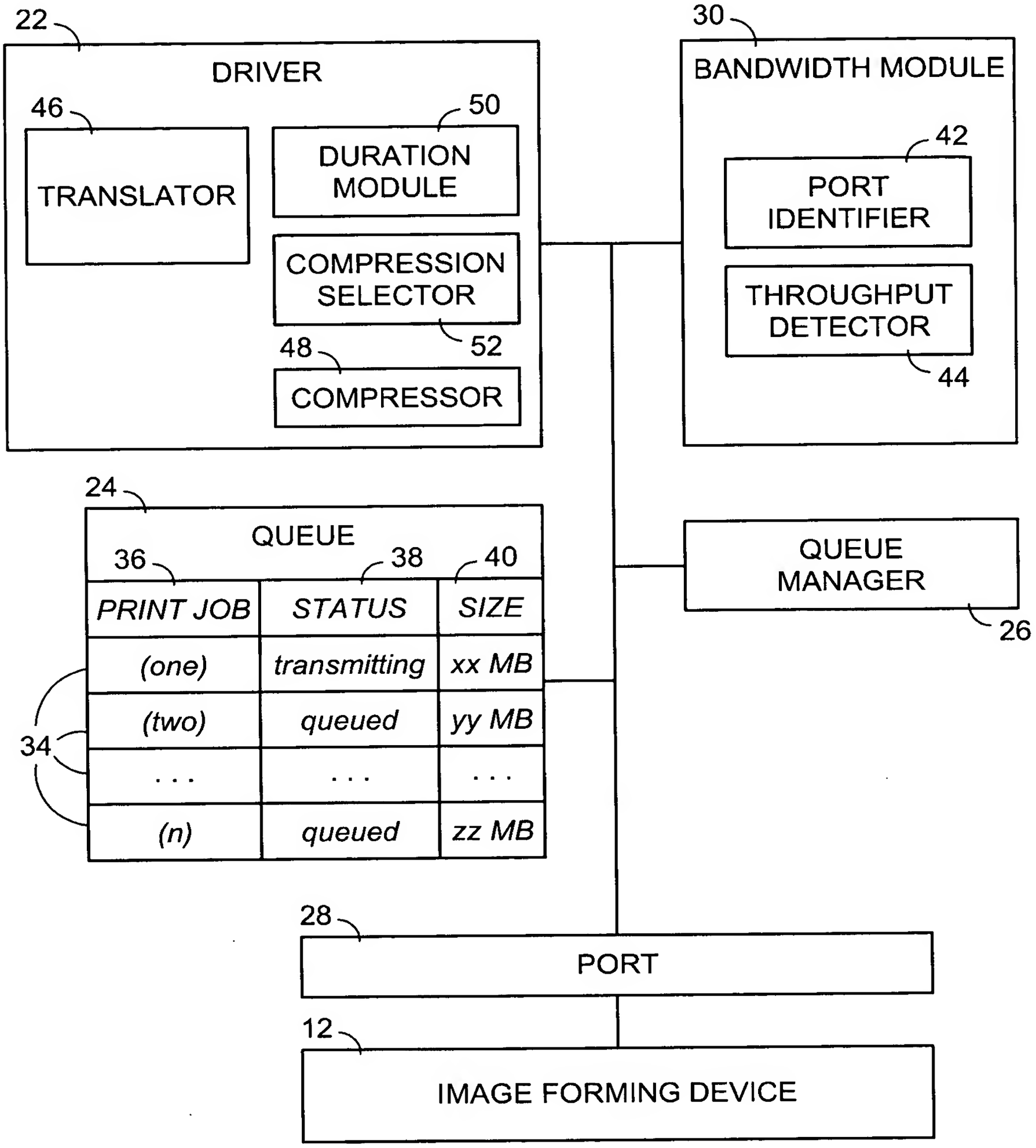
22
DRIVER
46
TRANSLATOR
50
DURATION MODULE
COMPRESSION SELECTOR
52
48
COMPRESSOR
30
BANDWIDTH MODULE
42
PORT IDENTIFIER
THROUGHPUT DETECTOR
44
24
QUEUE
36
38
40
PRINT JOB
STATUS
SIZE
(one)
transmitting
xx MB
(two)
queued
yy MB
. . .
. . .
. . .
(n)
queued
zz MB
34
QUEUE MANAGER
26
28
PORT
12
IMAGE FORMING DEVICE

FIG. 5

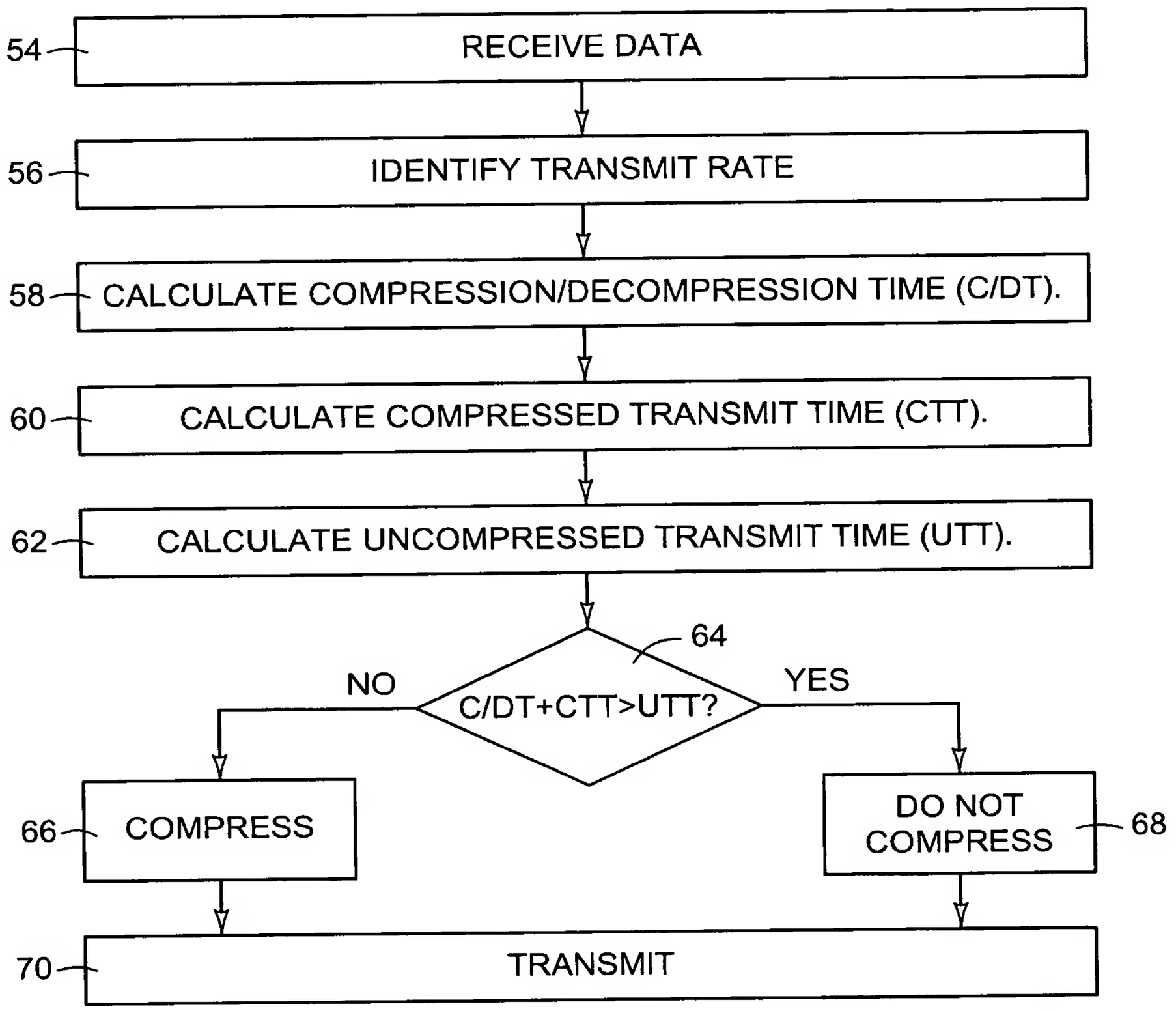
54
RECEIVE DATA
56
IDENTIFY TRANSMIT RATE
58
CALCULATE COMPRESSION/DECOMPRESSION TIME (C/DT).
60
CALCULATE COMPRESSED TRANSMIT TIME (CTT).
62
CALCULATE UNCOMPRESSED TRANSMIT TIME (UTT).
64
C/DT+CTT>UTT?
NO
YES
66
COMPRESS
DO NOT COMPRESS
68
70
TRANSMIT

FIG. 6